

May 8 - 9, 2000
TOCDF Stack Release
Timeline

1548 hours	Last rocket fed to the DFS
1621 hours	DFS Stop Feed – lower feed gate is jammed
1640 hours	DFS Kiln goes into oscillation mode
1730 hours	DFS HDC clear of material
1951 hours	DFS Kiln pressure (16-PIT-018) begins to fluctuate
	DFS Afterburner exhaust gas differential pressure (16-PDIT-813) begins to rise from 0.25 in. w.c.
	DFS Afterburner exhaust residence time (16-KI-813) begins to drop from 3.7 seconds
2010 hours	DFS kiln pressure lowered to –1.5 in. w.c.
2020 hours	DFS Afterburner exhaust flow (16-FI-813) high flow alarm
2030 hours	DPE entrants begin to inspect feed chute
2036 hours	DPE entrants notify the CON that there appeared to be some debris clinging to the sides of the feed chute
2042 hours	DFS Operator notices that the kiln pressure is making minor excursions affecting the operation of the ID fans
2127 hours	DPE entrants washing down the feed chute
2131 hours	DPE entrants done with feed chute clean out and wash down, both gates closed
2133 hours	DPE entrants changing out strainers on AQS
2137 hours	DPE entrants place 1.0 lbs. of agent waste on the DFS feed gate
2145 hours	DFS Operator observes that the DFS PAS Venturi is opened to 100%
2158 hours	DFS Kiln exhaust temperature (16-TIT-182) begins to drop from 1440 °F
	DFS Afterburner exhaust temperature (16-TIT-092) begins to drop from 2120 °F
2159 hours	DFS exhaust gas flow (PAS-SCRB-102, 24-XS-430) malfunctions
2200 hours	DFS PAS Quench tower exhaust temperature (24-TIT-374) begins to drop from 169 °F
2201 hours	DFS Afterburner exhaust temperature (16-TIT-092) reaches 2107 °F
2202 hours	DFS PAS O ₂ (24-AIT-206, 16-AIT-175) jumps to 20.9%
	DFS PAS CO (16-AIT-059H, 24-AIT-207H) begins to rise
	DFS exhaust gas flow (PAS-SCRB-102, 24-FSLL-430) FLOW LO LO alarm
	DFS Afterburner and Kiln burners locked out
	DFS Afterburner exhaust temperature (16-TIT-092) drops below the RCRA low temperature
2206 hours	DFS Kiln exhaust gas temperature (16-TIT-182) drops below the RCRA low temperature
2209 hours	DFS Operator concludes that there may be a problem with the KURZ flow indicator (FIT-430)
2210 hours	DFS PAS Demister liquid level begins to rise
2243 hours	ACAM ECR 312 (ECR B) reading 0.30 MPL
	ACAM DFS 352 (DFS Room) reading 0.05 TWA
	ACAM DFS 352 (DFS Room) reading 0.03 TWA
2247 hours	ACAM ECR311 (ECR A) reading .99 TWA
2248 hours	DFS Kiln pressure (16-PIT-018) reaches –2.0 in. w.c. (bottom of the instrument range)
	DFS Room pressure (76-PDIC-481) is at –0.68 in. w.c.
	ECR A pressure (76-PDIC-423) is at –1.24 in. w.c.
	ECR B pressure (76-PDIC-424) is at –1.93 in. w.c.

2249 hours ACAM ECR 312 (ECR B) reading .32 MPL
ACAM DFS 352 (DFS Room) reading .05 TWA

2250 hours ACAM ECR 311 (ECR A) reading 1.17 TWA

2318 hours DFS PAS Clean Liquor pump stopped (24-FIC-036)
DFS Afterburner exhaust residence time (16-KI-813) reaches a low of 1.7 seconds

2320 hours DFS PAS Venturi differential pressure (24-PDIC-008) jumps to 50 in. w.c. (top of the instrument range)

2325 hours ACAM PAS 702 begins to show low level readings, between 0.05 and 0.15 ASC
DFS Room pressure (76-PDIC-481) is at -2.0 in. w.c.
ECR A pressure (76-PDIC-423) is at -1.38 in. w.c.
ECR B pressure (76-PDIC-424) is at -2.15 in. w.c.

2326 hours ACAM PAS 701C first alarms at 0.63 ASC
Site masked
DFS Kiln exhaust gas temperature (16-TIT-182) is at 204 °F
DFS Afterburner exhaust gas temperature (16-TIT-092) is at 1250 °F

2327 hours ACAM PAS 701A first alarms at 1.57 ASC

2329 hours TOCDF Con notifies DCD EOC

2330 hours DFS Kiln exhaust temperature (16-TIT-182) reaches 194 °F
DFS Afterburner exhaust temperature (16-TIT-092) reaches 1214 °F

2334 hours DFS Afterburner exhaust residence (16-KI-813) time climbs to 2.7 seconds
DFS Kiln pressure (16-PIT-018) begins to fluctuate

2336 hours DFS Kiln pressure (16-PIT-018) reaches -0.23 in. w.c.

2337 hours Started DAAMS at PAS 701E

2338 hours Pulled DAAMS tubes at PAS 702 due to PAS 701 alarm

2340 hours ACAM PAS 701A peaks at 3.39 ASC
ACAM PAS 701C peaks at 3.63 ASC
ACAM PAS 702 alarms at peak of 1.45 ASC
DFS Kiln pressure (16-PIT-018) is at -2.0 in. w.c.
DFS Room pressure (76-PDIC-481) is at -1.21 in. w.c.
ECR A pressure (76-PDIC-423) is at -1.32 in. w.c.
ECR B pressure (76-PDIC-424) is at -2.05 in. w.c.

2342 hours DFS Afterburner exhaust residence time (16-KI-813) reaches a high of 10.0 seconds

2344 hours DFS Operator directed to bottle up the furnace

2355 hours TOCDF Con updates DCD EOC

2343 hours DFS PAS Venturi differential pressure (24-PDIC-008) drops to 1.0 in. w.c.

2346 hours DFS Kiln pressure (16-PIT-018) goes positive

2347 hours DAAMS at PAS 701D pulled

2351 hours DFS PAS Venturi differential pressure (24-PDIC-008) jumps to 21.7 in. w.c.

2356 hours DAAMS at PAS 701E pulled

0018 hours Site unmasked

0019 hours DFS Afterburner exhaust temperature (16-TIT-092) reaches 1597 °F

0022 hours DFS PAS Venturi differential pressure (24-PDIC-008) jumps to 50 in. w.c.
DFS Kiln pressure (16-PIT-018) goes negative and begins to fluctuate

0023 hours DFS Afterburner exhaust residence time (16-KI-813) begins to drop from 10.0 seconds
ACAM PAS 702 alarms at 0.93 ASC

0025 hours DCD EOC reports all ACAMS cleared, waiting for DAAMS

0028 hours ACAM PAS 701 B alarms at 0.39 ASC
ACAM PAS 702 reading drops to 0.87 ASC

0029 hours ACAM PAS 701 C alarms at 0.56 ASC
Site masked
DFS Kiln exhaust gas temperature (16-TIT-182) is at 227 °F
DFS Afterburner exhaust temperature (16-TIT-092) reaches 1344 °F
DFS Afterburner exhaust residence time (16-KI-813) reaches approximately 3.0 seconds

0031 hours DFS Afterburner exhaust residence time (16-KI-813) reaches a high of 10.0 seconds
ACAM PAS 701 B peaks at 0.74 ASC
PAS 701 D DAAMS tube from first alarm analyzed and confirmed at 2.87 ASC

0032 hours DFS Kiln pressure (16-PIT-018) goes positive
TOCDF Con notifies DCD EOC of new alarms
DFS Operator directed to bottle up the furnace
ACAM PAS 701 C peaks at 0.81 ASC
PAS 701 DAAMS tube pulled for second alarm

0038 hours DFS PAS Venturi differential pressure (24-PDIC-008) drops to 1.0 in. w.c.
ACAM PAS 701 C clears

0039 hours ACAM PAS 701 B clears

0040 hours DAAMS at PAS 702 pulled for second alarm

0056 hours ACAM PAS 702 clears

0058 hours Confirmation of PAS 701 D for first alarm reported to the control room

0107 hours Site unmasked

0117 hours TOCDF Con notifies DCD EOC of DAAMS confirmation

0127 hours PAS 702 DAAMS A-tube analyzed and confirmed at 4.00 ASC

0148 hours PAS 701 E DAAMS A-tube from the first alarm analyzed and confirmed at 0.87 ASC

0149 hours DAAMS tube from PAS 701 second alarm analyzed and confirmed at 0.69 ASC

0223 hours DAAMS tube from PAS 702 second alarm analyzed and confirmed at 0.57 ASC

0230 hours Confirmation of PAS 701 DAAMS tube from the second alarm reported to the control room

0302 hours Confirmation of PAS 702 DAAMS tube from the second alarm reported to the control room

0315 hours PAS 702 DAAMS B-tube from the first alarm analyzed and confirmed at 4.01 ASC

0334 hours DCD EOC notifies Tooele County

0344 hours PAS 701 E DAAMS B-tube from the first alarm analyzed and confirmed at 0.87 ASC

0355 hours CAMDS was requested to collect the perimeter DAAMS tubes

0359 hours Confirmation of PAS 701 E, A-tube, from the first alarm reported to the control room
Confirmation of PAS 702, A-tube, from the first alarm reported to the control room
Confirmation of PAS 702, B-tube, from the first alarm reported to the control room

0424 hours Confirmation of PAS 701 E, B-tube, from the first alarm reported to the control room

0454 hours DPE entrants decon 1 lb of agent waste after removing it from the DFS feed gate